

Deliquescent Dryer

There are some applications which need dry air but there is no electricity available such as sand blasting the iron bridges. The compressed air is generally generated by portable compressors. Mikropor Deliquescent Dryer first cools hot and wet air discharged from the compressor by the help of the integrated pneumatic aftercooler. Cooling forces a substantial quantity of entrained moisture to condense. But even after exiting the aftercooler, the air is saturated with vapor (100% relative humidity). The majority of this water is drained by the help of a centrifugal moisture separator. The compressed air then passes through the drying vessel, which contains specially formulated desiccant. The desiccant cuts the humidity of the air roughly in half. Air finally flows through an particle filter to trap any fine particles in the air flow.

Applications

- Plant air back up
- Oil and gas drying
- Blasting and coating mobile paint booths
- Applications which has explosive gases in the environment
- Sawmills, lumber yards, asphalt plants, ready mix concrete



Technical Specifications

Model	Capacity		Connection Size	Max. working pressure (bar)	Air Motor Consumption (m³/h)	Desiccant material Qty. Per Unit (Kg)	Weight (Kg)	Dimensions (mm)		
	(m³/h)	(scfm)						A Height	B Length	C Width
MDEL-425	425	250	1 1/2"	10	16	114	300	2050	1200	690
MDEL-680	680	400	2"	10	24	181	345	2050	1200	690
MDEL-1360	1360	800	2 1/2"	10	35.5	227	525	2200	1200	840
MDEL-2040	2040	1200	2 1/2" (in) 3" (out)	10	42.5	340	690	2350	1500	840
MDEL-2720	2720	1600	3"	10	120	453	850	2450	1750	1100

Model	Maximum Capacities (m³/h)				
	4 Bar	6 Bar	7 Bar	9 Bar	10 Bar
MDEL-425	262	380	425	540	595
MDEL-680	435	600	680	865	950
MDEL-1360	870	1210	1360	1730	1900
MDEL-2040	1300	1815	2040	2590	2850
MDEL-2720	1735	2420	2720	3455	3800



Equipments

- Air motor for aftercooler
- Open frame fork lift skid
- Four point lifting lugs
- 5 micron particulate after-filter
- Initial fill of special desiccant
- PED / ASME Code dryer vessel
- Filter Regulator Lubricator
- Safety Relief valve
- Manual drain valve
- Pressure gauge
- Protective screen above aftercooler
- Temperature gauge kit (optional)
- Internal epoxy coating for long vessel life
- Two dryer sight windows for desiccant viewing

